

REPLACEMENT SHEET

Title: SYSTEM AND METHOD FOR COMPACTING FIELD UPGRADEABLE
WIRELESS COMMUNICATION DEVICE

Inventor(s): RAJARAM, Gowri and KAPLAN, Diego

Attorney Docket No.: UTL 00103

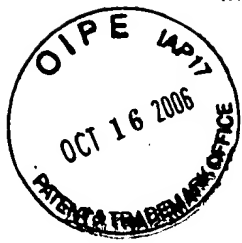
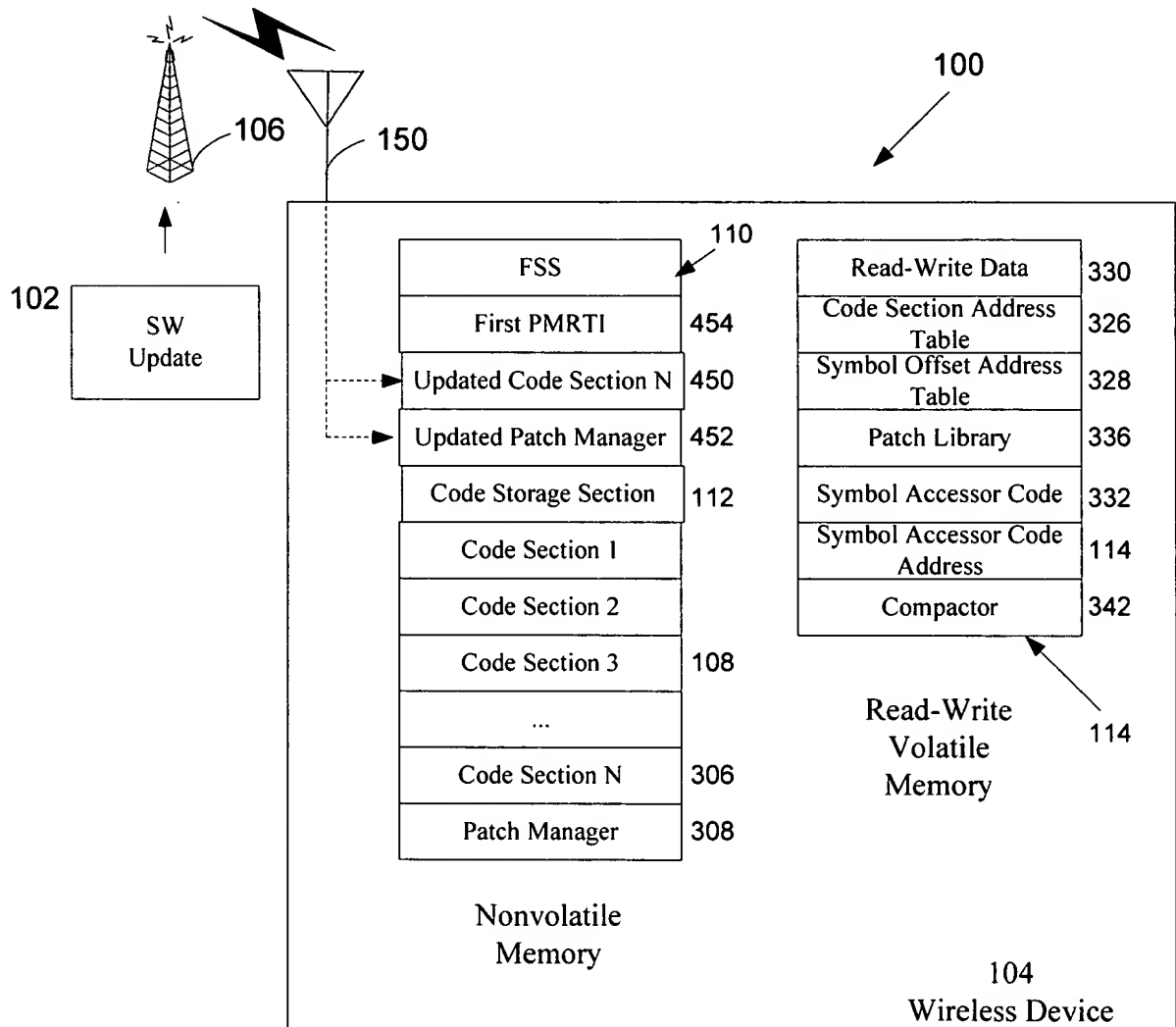


Figure 1
Wireless Device With OTA Updatable
Software Architecture



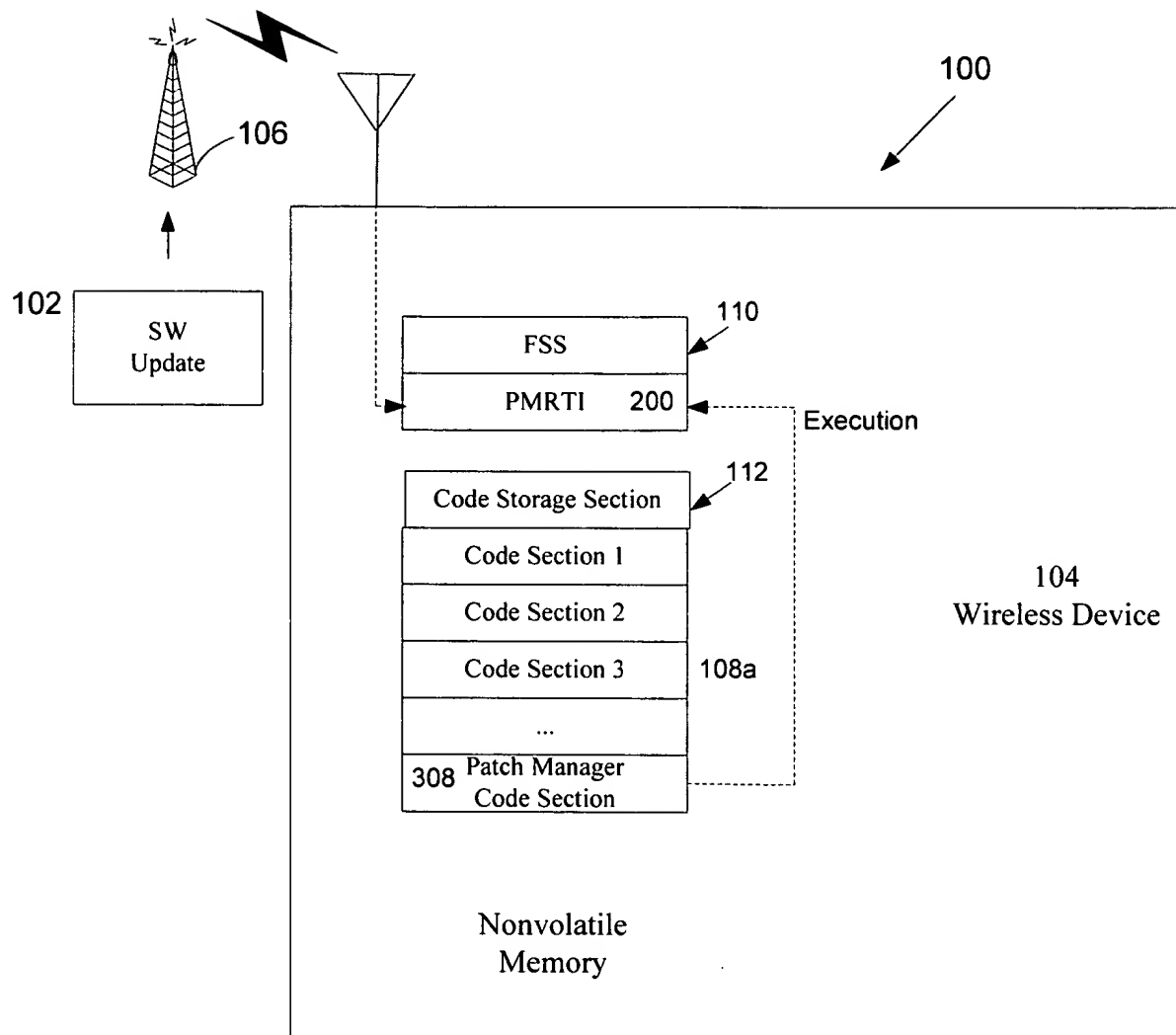
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Figure 2
Wireless Device OTA Software
Maintenance System



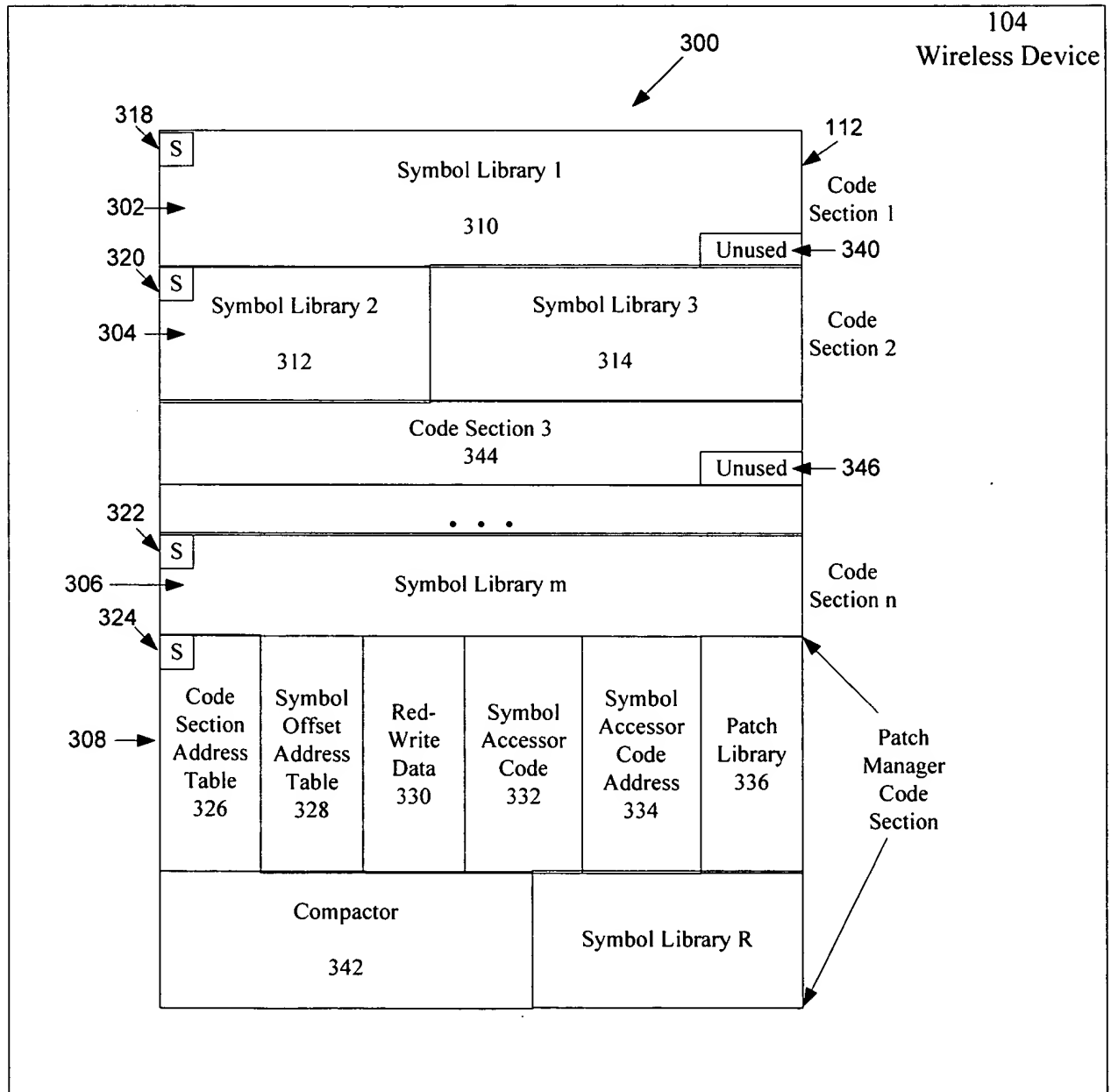
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Figure 3
Wireless Device OTA Software
Maintenance/Reorganizing Block Diagram



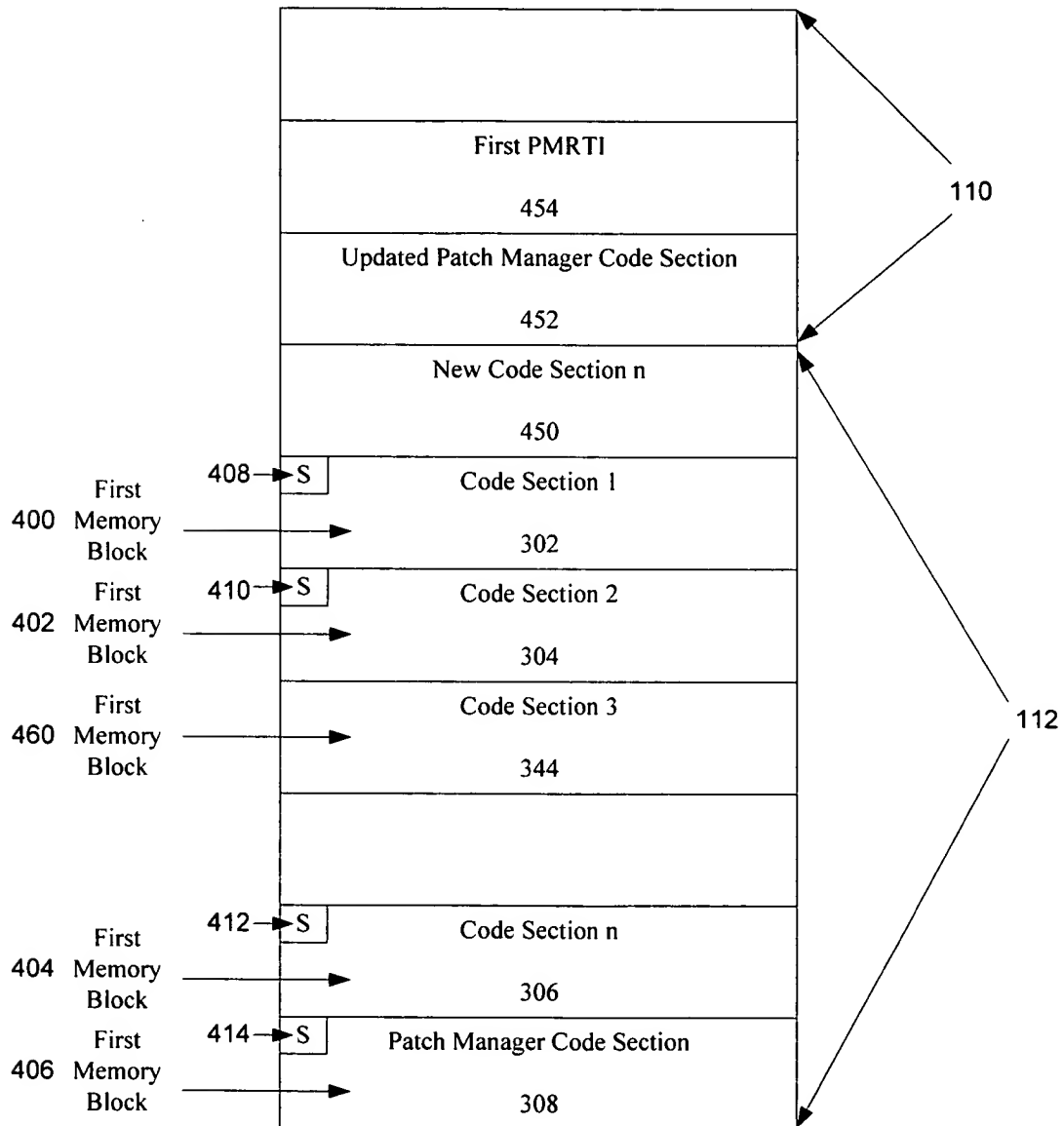
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Figure 4
Wireless Device Memory Diagram



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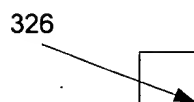
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Figure 5
Code Section Address Table

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Code Section Address Table	
IDENTIFIERS	ADDRESSES
CS_1	Start Address 1 (00100)
CS_2	Start Address 2 (00200)
...	...
CS_n	Start Address n (00700)
PM	Start Address p (01000)

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Figure 6
Symbol Library 1

	0	1	2	3	4	5	6	7
0				X				
1						Y		
⋮								
n								
					Z			

310

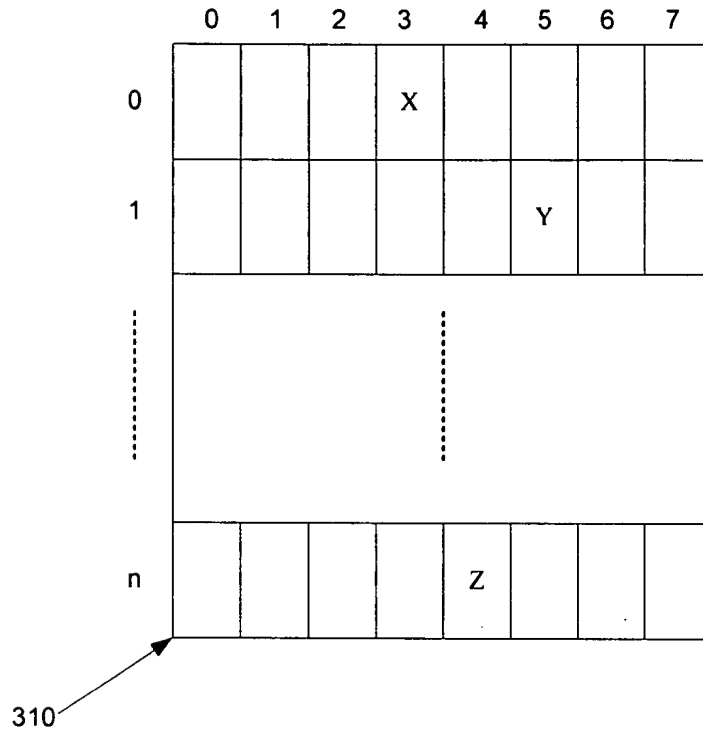
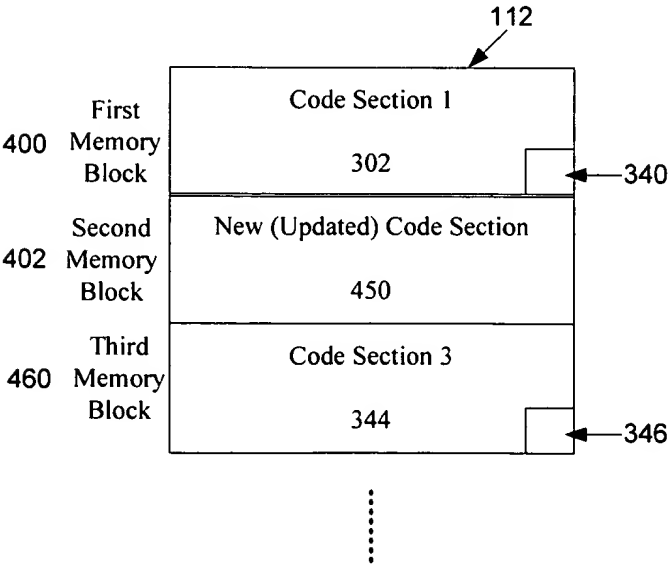


Figure 7
Symbol Offset Address
Table

Symbol Offset Address Table		
Symbol ID	Code Section ID	Offset
X_1	CS_1	03
Y_1	CS_1	15
P_1	CS_2	11
Q_1	CS_2	33
AA_3	CS_2	47
⋮	⋮	⋮

Figure 8
Exemplar
Compacting
Results



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Figure 9a
Exemplar
Compaction
Action

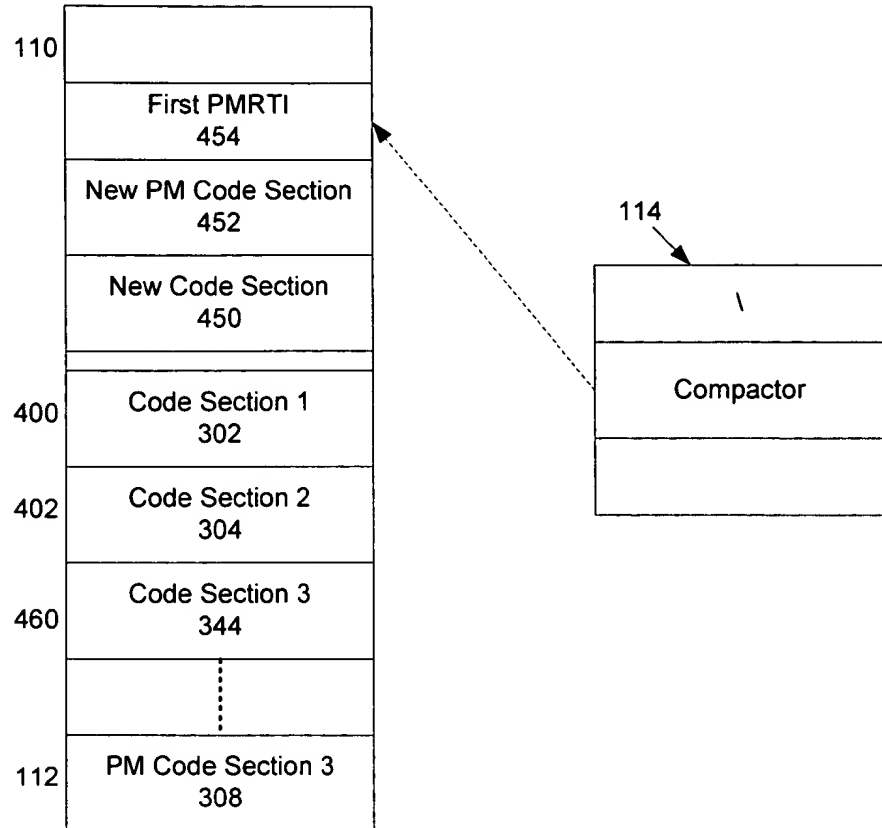
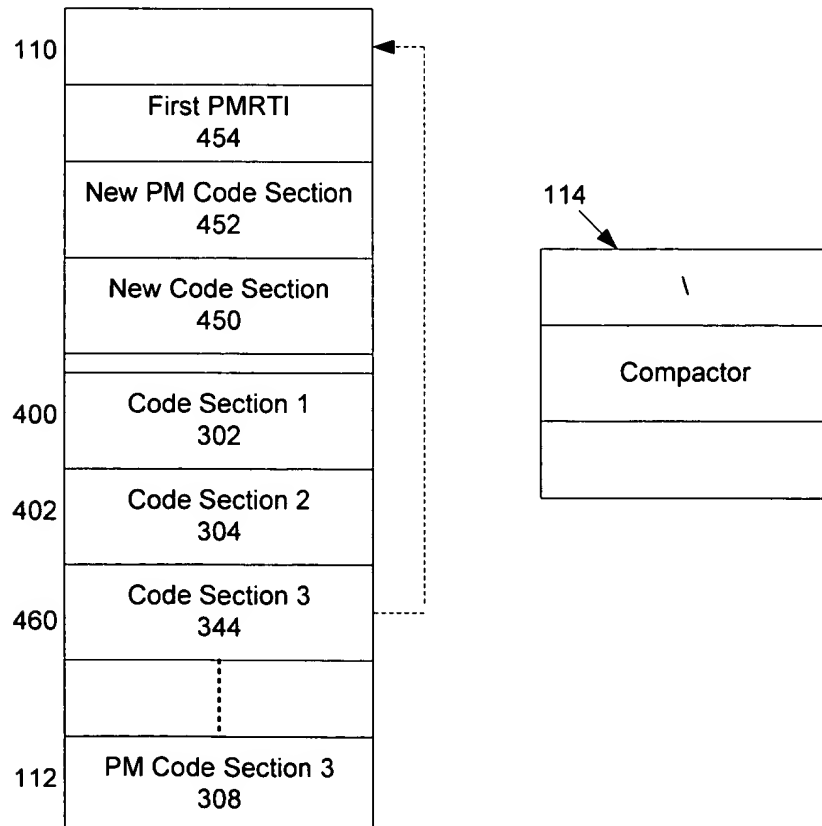


Figure 9b
Exemplar
Compaction
Action



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Figure 9c
Exemplar
Compaction
Action

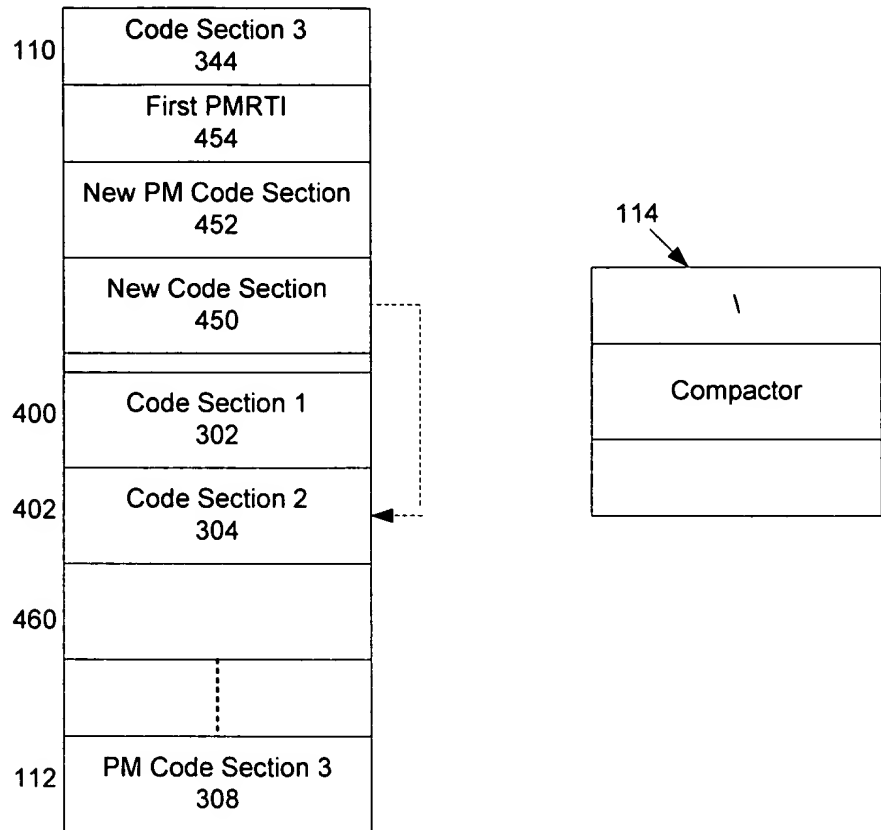
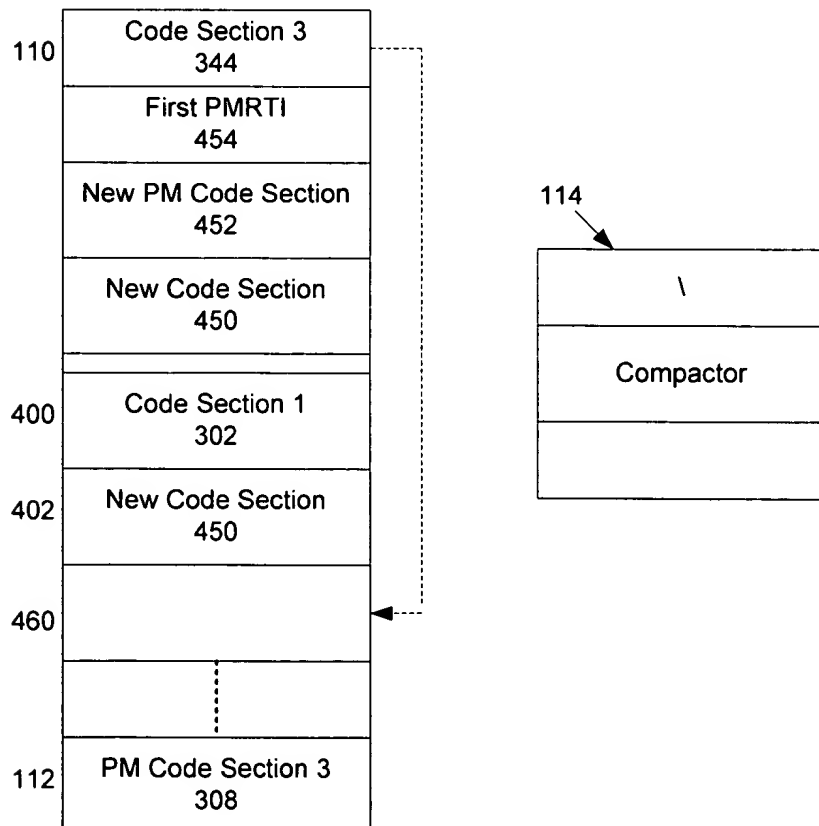


Figure 9d
Exemplar
Compaction
Action



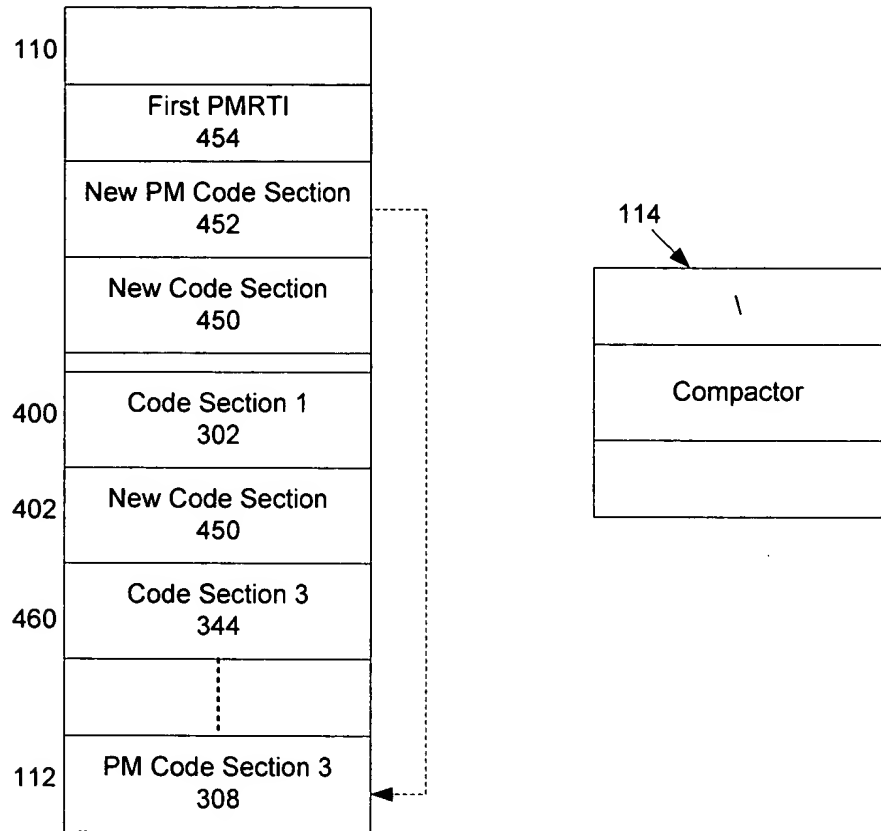
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**Figure 9e
Exemplar
Compaction
Action**



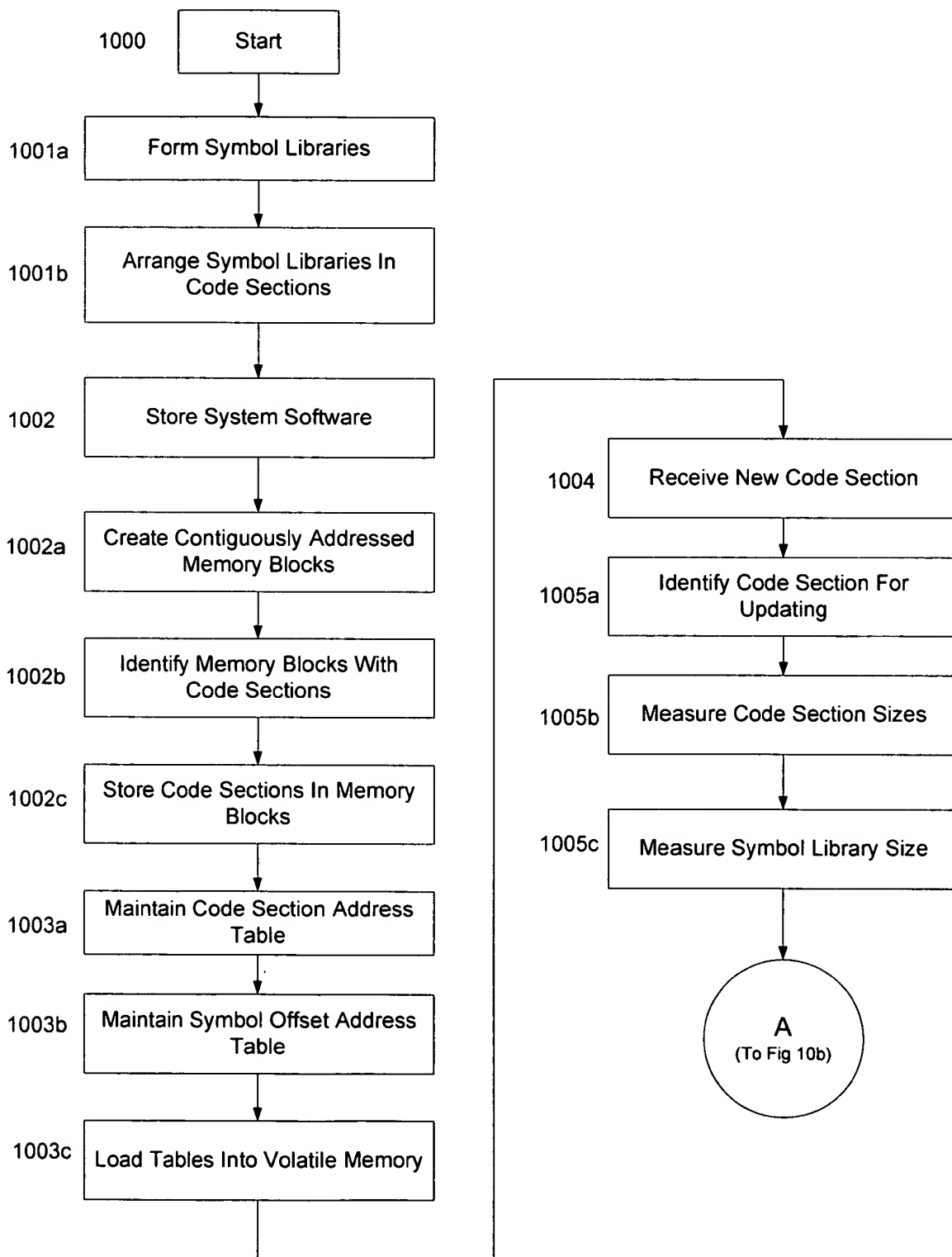
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Figure 10a
Reorganizing Software In A
Wireless Communications
Device



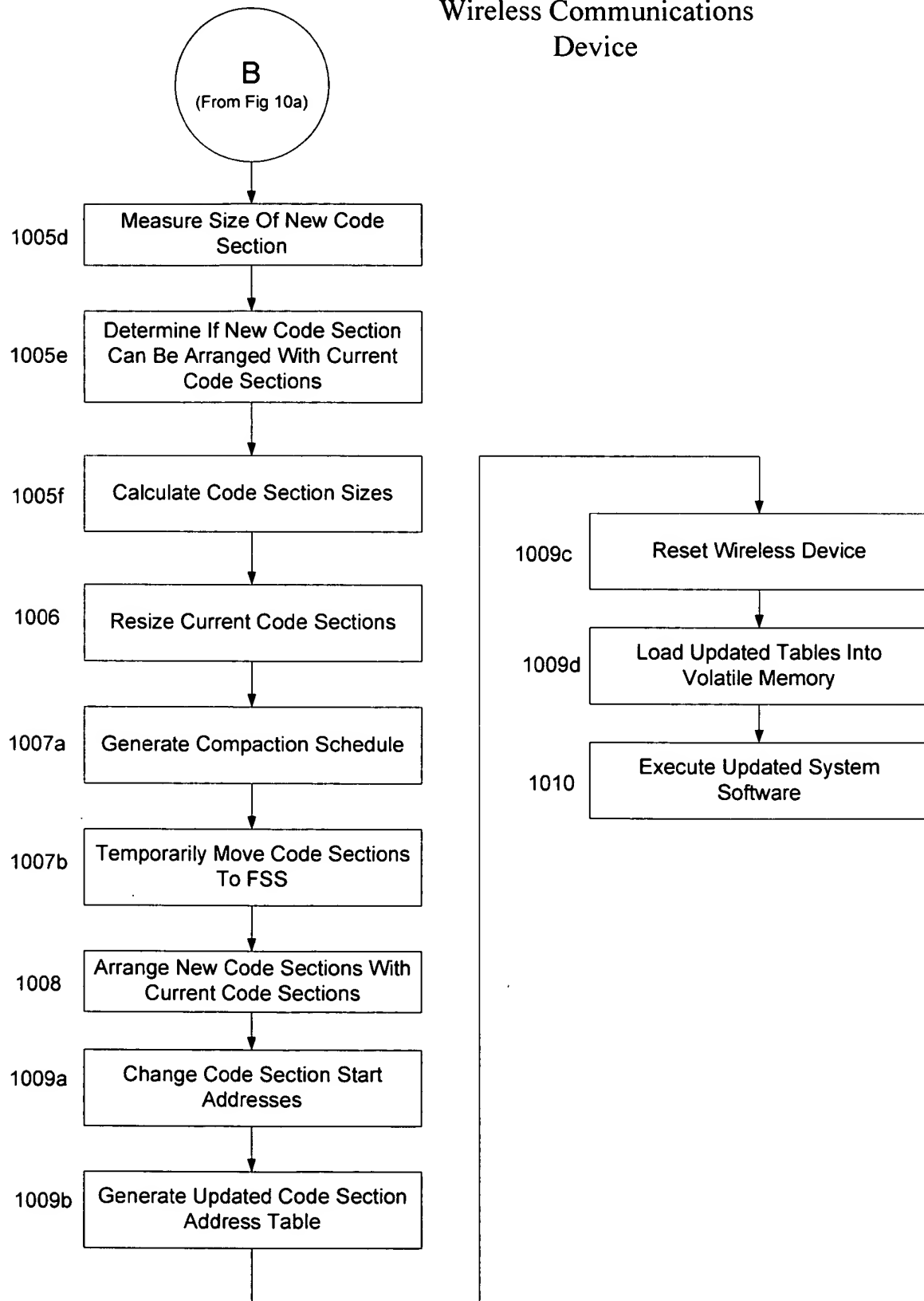
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Figure 10b
Reorganizing Software In A
Wireless Communications
Device



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Figure 11
Further Exemplar For
Reorganizing Software In A
Wireless Communications
Device

